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1

Extending hardware based mandatory access controls for memory to multicore architectures

Brian L. Sharp, Gregory D. Peterson, Lok Kwong Yan

May 2008 CSITRW '08: Proceedings of the 4th annual workshop on Cyber security and information intelligence research: developing strategies to meet the cyber security and information intelligence challenges ahead

**Publisher:** ACM

Full text available:  [PDF \(31.86 KB\)](#)

Additional Information: [full citation, appendices and supplements, abstract, references, index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 30, Downloads (12 Months): 47, Citation Count: 0

Current memory architectures do not practice the principle of least privilege, resulting in the exposure of memory to data corruption and usurpation threats, collectively called memory based threats. The most famous of such threats is probably the buffer ...

**Keywords:** data corruption, data usurpation, hardware, mandatory access control, secure processor, type safety

2 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 CASCON '97: Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

**Publisher:** IBM Press

Full text available:  [PDF \(4.21 MB\)](#)

Additional Information: [full citation, abstract, references, index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 47, Downloads (12 Months): 500, Citation Count: 0

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event ...

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**3 A simple mechanism for capturing and replaying wireless channels**



Glenn Judd, Peter Steenkiste

August 2005 E-WIND '05: Proceedings of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis

**Publisher:** ACM

Full text available: Pdf (6.06 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 79, Downloads (12 Months): 494, Citation Count: 2

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility ...

**Keywords:** channel capture, emulation, wireless

**4 Communications of the ACM: Volume 51 Issue 3**



March 2008 Communications of the ACM

**Publisher:** ACM

Full text available: Digital Edition , Pdf (7.56 MB)

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 390, Downloads (12 Months): 1479, Citation Count: 0

**5 Conscientious software**



Richard P. Gabriel, Ron Goldman

October 2006 OOPSLA '06: Proceedings of the 21st annual ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications

**Publisher:** ACM

Full text available: Pdf (1.52 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 28, Downloads (12 Months): 215, Citation Count: 2

Software needs to grow up and become responsible for itself and its own future by participating in its own installation and customization, maintaining its own health, and adapting itself to new circumstances, new users, and new uses. To create such software ...

**Keywords:** autopoiesis, continuous (re)design, emergence, feedback, repair, robustness, self-sustaining systems, self-testing, software, software complexity, stigmergy

Also published in:

October 2006 **SIGPLAN Notices** Volume 41 Issue 10

**6 Flexible Decoupled Transactional Memory Support**



Arvindh Shirraman, Sandhya Dwarkadas, Michael L. Scott

June 2008 ISCA '08: Proceedings of the 35th International Symposium on Computer Architecture

**Publisher:** ACM

Full text available: Pdf (715.01 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 39, Downloads (12 Months): 103, Citation Count: 0

A high-concurrency transactional memory (TM) implementation needs to track concurrent accesses, buffer speculative updates, and manage conflicts. We present a system, FlexTM (FLEXible Transactional Memory), that coordinates four decoupled hardware mechanisms: ...

**Keywords:** Transactional memory, Hardware, Cache coherence, Multiprocessors, Conflict detection, RTM, FlexTM

Also published in:

June 2008 **SIGARCH Computer Architecture News** Volume 36 Issue 3

**7 A novel approach for a file-system integrity monitor tool of Xen virtual machine**



Nguyen Anh Quynh, Yoshiyasu Takefull

March 2007 ASIACCS '07: Proceedings of the 2nd ACM symposium on Information, computer and communications security

**Publisher:** ACM

Full text available: Pdf (253.86 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 44, Downloads (12 Months): 227, Citation Count: 0

File-system integrity tools (FIT) are commonly deployed host-based intrusion detections (HIDS) tool to detect unauthorized file-system changes. While FIT are widely used, this kind of HIDS has many drawbacks: the intrusion detection is not done in real-time ...

**Keywords:** Linux, Xen virtual machine, intrusion detection, rootkit

**8 Saving users from themselves: creating an effective student-oriented anti-virus**



intervention

Kevin Davis

October 2001 SIGUCCS '01: Proceedings of the 29th annual ACM SIGUCCS conference on User services

**Publisher:** ACM

Full text available: Pdf (270.47 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 52, Citation Count: 0

The proliferation of computer viruses, Trojans, and other malicious code in recent years has presented a serious challenge to higher education computer services support programs. Outside of higher education, most IT departments mandate anti-virus policies ...

**Keywords:** McAfee VirusScan, anti-virus, computer security, intervention, residential computing support, user services

**9 Communications of the ACM: Volume 51 Issue 8**

 August 2008      Communications of the ACM  
**Publisher:** ACM

Full text available:  Digital Edition ,  Pdf (6.85 MB)

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 630, Downloads (12 Months): 1909, Citation Count: 0

**10 Communications of the ACM: Volume 51 Issue 7**

 July 2008      Communications of the ACM  
**Publisher:** ACM

Full text available:  Digital Edition ,  Pdf (6.54 MB)

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 4766, Downloads (12 Months): 5487, Citation Count: 0

**11 Queue: Volume 6 Issue 3**

 May 2008      Queue  
**Publisher:** ACM

Full text available:  Digital Edition ,  Pdf (5.56 MB)

Additional Information: [full citation](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 97, Downloads (12 Months): 350, Citation Count: 0

**12 Xen and the art of virtualization**

 Paul Barham, Boris Dragovic, Keir Fraser, Steven Hand, Tim Harris, Alex Ho, Rolf Neugebauer, Ian Pratt, Andrew Warfield

December 2003 SOSP '03: Proceedings of the nineteenth ACM symposium on Operating systems principles

**Publisher:** ACM

Full text available:  Pdf (168.76 KB)      Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 245, Downloads (12 Months): 1651, Citation Count: 219

Numerous systems have been designed which use virtualization to subdivide the ample resources of a modern computer. Some require specialized hardware, or cannot support commodity operating systems. Some target 100% binary compatibility at the expense ...

**Keywords:** hypervisors, paravirtualization, virtual machine monitors

Also published in:

December 2003 **SIGOPS Operating Systems Review** Volume 37 Issue 5

**13 Model-based monitoring for early warning flood detection**



Elizabeth A. Basha, Sai Ravula, Daniela Rus

November 2008 SenSys '08: Proceedings of the 6th ACM conference on Embedded network sensor systems

**Publisher:** ACM

Full text available: [PDF](#) (9.95 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 62, Downloads (12 Months): 62, Citation Count: 0

Predictive environmental sensor networks provide complex engineering and systems challenges. These systems must withstand the event of interest, remain functional over long time periods when no events occur, cover large geographical regions of interest ...

**Keywords:** early warning system, flood prediction, heterogeneous communication, regression model, wireless sensor network

**14 Research challenges of autonomic computing**



Jeffrey O. Kephart

May 2005 I CSE '05: Proceedings of the 27th international conference on Software engineering

**Publisher:** ACM

Full text available: [Publisher Site](#), [PDF](#) (128.40 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 46, Downloads (12 Months): 458, Citation Count: 13

Autonomic computing is a grand-challenge vision of the future in which computing systems will manage themselves in accordance with high-level objectives specified by humans. The IT industry recognizes that meeting this challenge is imperative; otherwise, ...

**Keywords:** autonomic computing, research challenges, self-managing systems

**15 SCoPE: an AspectJ compiler for supporting user-defined analysis-based**



**pointcuts**

Tomoyuki Aotani, Hidehiko Masuhara

March 2007 AOSD '07: Proceedings of the 6th international conference on Aspect-oriented software development

**Publisher:** ACM

Full text available: [PDF](#) (195.33 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 119, Citation Count: 1

This paper proposes an approach called SCoPE, which supports user-defined analysis-based pointcuts in aspect-oriented programming (AOP) languages. The advantage of our approach is better integration with existing AOP languages than previous approaches. ...

**Keywords:** AOP, analysis-based pointcuts, aspect-oriented programming languages, compiler design, point-cuts

**16** [Fast and automated generation of attack signatures: a basis for building self-protecting servers](#)

 [Zhenkai Liang, R. Sekar](#)

November 2005 [CCS '05: Proceedings of the 12th ACM conference on Computer and communications security](#)

**Publisher:** ACM

Full text available:  [PDF \(180.09 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 23, Downloads (12 Months): 153, Citation Count: 12

Large-scale attacks, such as those launched by worms and zombie farms, pose a serious threat to our network-centric society. Existing approaches such as software patches are simply unable to cope with the volume and speed with which new vulnerabilities ...

**Keywords:** buffer overflow, denial-of-service protection, memory error, signature generation, worm defense

**17** [Improved user authentication in off-the-record messaging](#)

 [Chris Alexander, Ian Goldberg](#)

October 2007 [WPES '07: Proceedings of the 2007 ACM workshop on Privacy in electronic society](#)

**Publisher:** ACM

Full text available:  [PDF \(206.86 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 70, Citation Count: 0

Instant Messaging software is now used in homes and businesses by a wide variety of people. Many of these users would benefit from additional privacy, but do not have enough specialized knowledge to use existing privacy-enhancing software. There is a ...

**Keywords:** authentication, fingerprints, instant messaging, socialist millionaires' protocol

**18** [Forcehttps: protecting high-security web sites from network attacks](#)

 [Collin Jackson, Adam Barth](#)

April 2008 [WWW '08: Proceeding of the 17th international conference on World Wide Web](#)

**Publisher:** ACM

Full text available:  [PDF \(362.04 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 42, Downloads (12 Months): 179, Citation Count: 0

As wireless networks proliferate, web browsers operate in an increasingly hostile network environment. The HTTPS protocol has the potential to protect web users from network attackers, but real-world deployments must cope with misconfigured servers, ...

**Keywords:** HTTPS, eavesdropping, pharming, same-origin policy

**19** [Subspace: secure cross-domain communication for web mashups](#)

 Collin Jackson, Helen J. Wang

May 2007 WWW '07: Proceedings of the 16th international conference on World Wide Web

**Publisher:** ACM

Full text available:  Pdf (199.99 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 49, Downloads (12 Months): 234, Citation Count: 8

Combining data and code from third-party sources has enabled a new wave of *web mashups* that add creativity and functionality to web applications. However, browsers are poorly designed to pass data between domains, often forcing web developers ...

**Keywords:** access control, same origin policy, trust, web services

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